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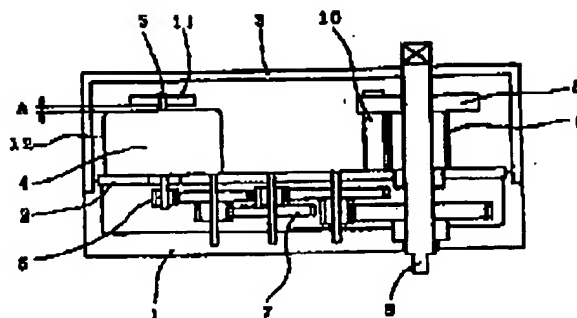
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APPLICANT : HITACHI VALVE KK;

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TITLE : DRIVING DEVICE FOR VALVE WITH
AUTOMATIC RESET MECHANISM



ABSTRACT : PROBLEM TO BE SOLVED: To prevent increase in the rotational frequency of a rotor at the time of reverse rotation by providing an overcurrent brake mechanism or hysteresis brake mechanism at any one of a motor output shaft or speed reduction mechanism.

SOLUTION: When a motor 4 is driven an output shaft 6 rotates to open a valve through a speed reduction gear 7 and simultaneously energize a spring 9. The rotation of the output shaft for opening the valve is completed when a stop plate 8 abuts against an open side stopper 10, thereby causing a full open condition. In this case, the motor 4 is turned into a hold condition so that the force save condition of the spring is electrically held. When supply of power to the motor 4 is stopped the motor 4 is released from its hold condition, and the output shaft 6 starts the rotation for closing the valve and simultaneously the rotational shaft 5 of the motor 4 and a permanent magnet 11 starts accelerated rotation to generate rotational magnetic field and further generate overcurrent in the direction where the rotation of the permanent magnet 11 is restrained. Accordingly increase in the maximum rotation frequency for closing the valve is prevented.

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